1 2 3 4	Jeremy S. Pitcock (<i>pro hac vice</i> pending) jpitcock@pitcocklawgroup.com THE PITCOCK LAW GROUP 20 Old Nyack Turnpike, Suite 307 Nanuet, NY 10954 Tel: (845) 215-9911/Fax: (845) 215-9912	10 FEB I		
5 6 7 8 9 10	David R. Stevens (S.B. No. 170123) dave.stevens@stevenslawgroup.com Sabir A. Ibrahim (S.B. No. 255806) sabir.ibrahim@stevenslawgroup.com STEVENS LAW GROUP 1754 Technology Dr., Suite 226 San Jose, California 95110 Tel: (408) 288-7588/Fax: (408) 288-7542		9 PM 12: 24 OISTRICT COURT ANGELES	3
12 13 14 15 16	Marc E. Hankin (S.B. No. 170505) marc@hankinpatentlaw.com HANKIN PATENT LAW, APC 6404 Wilshire Boulevard, Suite 1020 Los Angeles, CA 90048-5512 Tel: (323) 944-0206/Fax: (323) 944-020	09		
17 18	Attorneys for Plaintiff, AUTHENEX, I			
19	UNITED STATES I	DISTRICT COURT		
20	CENTRAL DISTRICT OF CALL	FORNIA, WESTER	N DIVISION	
21 22 22 23	AUTHENEX, INC, a Delaware corporation, Plaintiff, vs.	Case N V 10 - 0	1251-MRPCH	BKx)
24 25 26 27 28	EMC CORPORATION, a Delaware corporation and VASCO DATA SECURITY INTERNATIONAL, INC., a Delaware corporation, Defendants.	COMPLAINT FOR PATENT INFRINCAND AND DEMAND FOR JU	GEMENT	

Plaintiff Authenex, Inc. alleges for its Complaint the following:

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JURISDICTION AND VENUE

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- This is an action for patent infringement arising under 35 U.S.C. § 1, 1. et seq. This Court has subject matter jurisdiction over this matter based on 28 U.S.C. §§ 1338(a) and 1331.
- Venue is proper in this judicial district pursuant to 28 U.S.C. § 1391 and 1400(b).
- 3. This Court has personal jurisdiction over Defendants by virtue of their systematic, continuous, and routine contact with California. Defendants have sold and offered for sale infringing products within this Judicial District, as well as others throughout the United States.

THE PARTIES

- 4. Plaintiff Authenex, Inc. ("Authenex") is a Delaware Corporation with its principal place of business at 800 Charcot. Ave., San Jose, California 95131.
- Defendant EMC Corporation ("EMC") is a Delaware corporation 5. with its principal place of business in Hopkinton, Massachusetts.
- Defendant Vasco Data Security International, Inc. ("Vasco") is a 6. Delaware corporation with its principal place of business in Oakbrook Terrace, Illinois.

PATENT-IN-SUIT

United States Patent No. 7,519,989 ("the '989 patent"), entitled 7. "Token Device that Generates and Displays One-Time Passwords and that Couples To a Computer For Inputting Or Receiving Data For Generating And Outputting One-Time Passwords And Other Functions," was duly and lawfully

issued April 14, 2009. Authenex has all right, title and interest to the '989 patent. A true and correct copy of the '989 patent is attached hereto as Exhibit A.

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DEFENDANTS' INFRINGING PRODUCTS

- 8. On information and belief, Defendant EMC markets and sells the RSA SecureID 800 Hybrid Authenticator ("RSA 800") under the name of its security division, RSA, to customers in this District and other parts of the United States. The RSA 800 practices at least claim 3 of the '989 patent.
- 9. On information and belief, Defendant Vasco markets and sells the DIGIPASS 860 Hybrid USB Security Device ("DIGIPASS 860") to customers in this District and other parts of the United States. The DIGIPASS 860 practices at least claim 3 of the '989 patent.

First Claim for Relief

INFRINGEMENT OF U.S. PATENT NO. 7,519,989

- Plaintiff incorporates by reference paragraphs 1 through 9 above, as 10. though fully set forth herein.
- Defendants have directly infringed, contributorily infringed, and/or actively induced infringement of the '989 patent by making, using, importing, offering for sale, and/or selling in the United States products that practice one or more claims of the '989 patent.
- Defendants' infringement of the '989 patent is without the consent of, authority of, or license from Authenex.
- On information and belief, Defendants' infringement of the '989 13. patent has been and continues to be deliberate and willful, and such infringement will continue unless Defendants are permanently enjoined by this Court.
- As a consequence of Defendants' infringement complained of 14. herein, Authenex has been damaged and will continue to sustain damages by

such acts in an amount to be determined at trial and will continue to suffer irreparable loss and injury.

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PRAYER FOR JUDGMENT AND RELIEF

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WHEREFORE, Plaintiff demands a trial by jury and requests judgment against Defendants as follows:

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Pursuant to 35 U.S.C. § 271, a determination that Defendants have A. directly infringed, contributorily infringed, and/or actively induced infringement of U.S. Patent No. 7,519,989 by making, using, importing, offering for sale, and/or selling in the United States, or by inducing or contributing to the making,

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use, importation, offering for sale, and/or sale of, infringing products; В. Pursuant to 35 U.S.C. § 283, an order that Defendants be

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permanently enjoined from infringing the '989 patent through the manufacture, use, import, offer for sale, and/or sale of the infringing products, or through

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inducing or contributing to the making, use, importation, offering for sale, and/or

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sale of the infringing products;

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Pursuant to 35 U.S.C. § 284, an award of damages adequate to compensate Plaintiff for infringement of the '989 patent, but in no event less than a reasonable royalty, together with prejudgment interest, costs and disbursements

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as fixed by the Court;

C.

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Pursuant to 35 U.S.C. § 284, an award increasing damages up to three times the amount found or assessed for infringement of the '989 patent by

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Defendants due to the willful and deliberate nature of the infringement;

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Pursuant to 35 U.S.C. § 285, a determination that this is an E. exceptional case and entry of judgment for Plaintiff's costs with an assessment of

interest and reasonable attorney fees, as well as expert witness fees and costs;

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F. Award of pre-judgment interest; and

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Case 2:10-cv-01251-MRP-VBK Document 1 Filed 02/19/10 Page 5 of 13 Page ID #:5

1	G. Such other and fur	ther relief as the Court deems equitable and just.
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3	T	
4	Date: February 19, 2010	Respectfully submitted,
5		THE PITCOCK LAW GROUP
6		Jeremy S. Pitcock
7		STEVENS LAW GROUP
8		David S. Stevens Sabir A. Ibrahim
9		
10 11		HANKIN PATENT LAW, APC Marc E. Hankin
12		
13		By: Man E. Halen
14		Marc E. Hankin
15		Attorneys for Plaintiff,
16		AUTHENEX, INC.
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1	DEMAND FOR JU	RY TRIAL				
2	2					
3	Plaintiff Authenex hereby demands a ju	Plaintiff Authenex hereby demands a jury trial as provided by Rule 38(a)				
4	4 of the Federal Rules of Civil Procedure.	of the Federal Rules of Civil Procedure.				
5	5					
6						
7	7 Date: February 19, 2010 Respectfull	y submitted,				
8 9		OCK LAW GROUP Pitcock				
10	10 STEVENS	LAW GROUP				
11						
12	Sabir A. Ibi	ahim				
13	13 HANKIN F	PATENT LAW, APC				
14	Marc E. Ha	nkin				
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16		arc E. Hankin				
17	17	iic E. Hankiii				
18	_	for Plaintiff,				
	19 AUTHENI	EA, INC.				
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(12) United States Patent Lin et al.

(54) TOKEN DEVICE THAT GENERATES AND DISPLAYS ONE-TIME PASSWORDS AND THAT COUPLES TO A COMPUTER FOR INPUTTING OR RECEIVING DATA FOR GENERATING AND OUTPUTTING ONE-TIME PASSWORDS AND OTHER FUNCTIONS

(75) Inventors: Paul Lin, Fremont, CA (US); Henry Hon, Berkeley, CA (US)

(73) Assignee: AV thencx Inc., San Jose, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 613 days.

(21) Appl. No.: 10/891,598

(22) Filed: Jul. 15, 2004

(65) Prior Publication Data

US 2005/0015588 A1 Jan. 20, 2005

Related U.S. Application Data

- (60) Provisional application No. 60/488,585, filed on Jul. 17, 2003.
- (51) Int. Cl.

 G06F 7/04 (2006.01)

 G06F 7/58 (2006.01)

 H04L 9/00 (2006.01)

 H04N 17/00 (2006.01)

 G06F 1/00 (2006.01)

 G06K 19/00 (2006.01)

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(10) Patent No.: US 7,519,989 B2
(45) Date of Patent: Apr. 14, 2009

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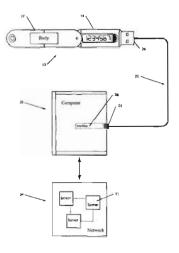
* cited by examiner

Primary Examiner—Matthew B Smithers
Assistant Examiner—Courtney D Fields
(74) Attorney, Agent, or Firm—David R. Stevens; Stevens
Law Group

(57) ABSTRACT

A token device that generates and displays one-time passwords and couples to a computer for inputting or receiving data for generating and outputting one-time passwords and performing other functions is provided. The token includes an interface for coupling to a computer. The token may also be coupled to any network that the computer may be connected to, when coupled to the computer. Data and information may be transmitted between the computer and token, and between the network and token, via the computer and interface. The data and information may include one-time password seeding, file transfer, authentication, configuration and programming of the token. The token must be seeded to generate and display one-time passwords. An original, or seed, value is loaded into the token. One-time passwords are subsequently generated or calculated, or both, from the seed value. Seeding of the token involving a counter, time, or time-related functions, may allow synchronization of the token with such functions. The token may support different authentication meth-

25 Claims, 2 Drawing Sheets



U.S. Patent

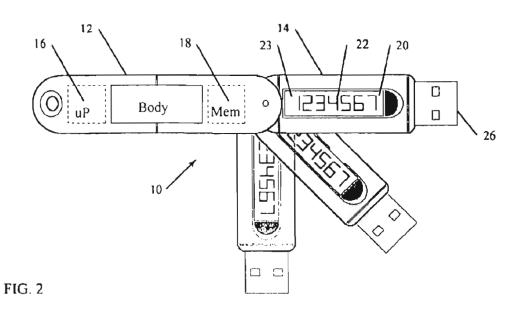
Apr. 14, 2009

Sheet 1 of 2

US 7,519,989 B2

Figure 1 14 12 1234567 Body 0 32 ~ 26 Computer 30 ~ 28 Interface - 31 34 ~ Server Server Server Network

U.S. Patent Apr. 14, 2009 Sheet 2 of 2 US 7,519,989 B2



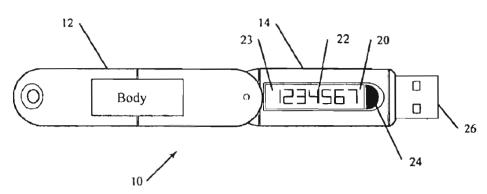


FIG. 3

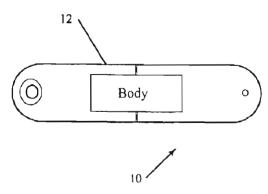


FIG. 4

US 7,519,989 B2

TOKEN DEVICE THAT GENERATES AND DISPLAYS ONE-TIME PASSWORDS AND THAT COUPLES TO A COMPUTER FOR INPUTTING OR RECEIVING DATA FOR GENERATING AND OUTPUTTING ONE-TIME PASSWORDS AND OTHER **FUNCTIONS**

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a non-provisional application of Provisional Application No. 60/488,585, filed on Jul. 17, 2003.

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to data authentication methods and systems and, more particularly, to a token device that computer for inputting or receiving data for generating and outputting one-time passwords and performing other functions.

2. Background Information

cally over the last few decades. During the past decade, networking technology and the Internet have grown and matured. The Internet is fast becoming the primary platform for global communication and commerce. However, the ease of communication and information sharing that has driven the 30 growth of the Internet has also made it more difficult to ensure the security of Internet transactions and to maintain the privacy of information accessible over the Internet.

To maintain security and privacy, many transactions and communications taking place over the Internet and other net- 35 worked environments require that a user authenticate him or herself in order to access information or to conduct transactions. For example, an online brokerage typically requires a user to authenticate him or herself prior to accessing their account or trading stocks.

Authentication refers to the method of proving the identity of the user. To be authenticated, the user typically presents a unique credential to a website or network they desire to access. This credential is usually comprised of a username and a secret password. Both the username and secret pass- 45 word may be established by the user. Alternatively, the username may be assigned to the user by an administrator of the website, or a similar entity, and the user may generate their secret password. Other known alternative methods may also be used to generate the username and password.

Static usernames and passwords are the most common method of authentication in the networked environment. However, static usernames and passwords are prone to several types of attacks and impersonations such as "Irojan horses" and "dictionary attacks." A user's static username and 55 password can also be misappropriated through networking sniffers, password hacking programs, and other less sophisticated methods such as guesswork. For example, a user may have established a "weak" password using his date of birth or the name of his spouse as the password which may be easily 60 nected to.

To strengthen authentication methods and prevent the types of attacks and impersonations described above, the network security industry has develop methods of authentischemes. These methods may be categorized as challenge and response, Public Key Infrastructure or PKI, and One-TimePassword or OTP. These methods make impersonation attacks more difficult by creating longer and dynamic passwords. Longer passwords make it more difficult to guess the

user to use the same username, but a new password each time. Each new password is generated by hardware or software commonly referred to as a token device, or "token". The token may be designed to display dynamic passwords. When authentication is needed, the user simply enters the dynamic 10 password displayed by the token at that time. These token values are often supplemented with a secret PIN code know only to the user. A secret PIN code may also be used to activate the token in order to display the dynamic password. These authentication methods have the potential to replace

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password, while dynamic passwords allow the authorized

BRIEF SUMMARY OF THE INVENTION

15 simple username and password schemes in the future.

The present invention comprises a token device that gengenerates and displays one-time passwords and couples to a 20 crates and displays one-time passwords. The token device, hereinafter token, couples to a computer for inputting or receiving data for generating and outputting one-time passwords and performing other functions.

The token includes an interface for coupling to a computer. The role of computers in our society has grown dramati- 25. The token may be coupled to any network that the computer may be connected to. Data may be transmitted between the computer and token and between the network and token, via the computer and interface when the token is coupled to the computer and when the computer is connected to the network.

The data may include one-time password seeding, authentication, token configuration, programming of the token, and file transfer. The token may be multi-functional and capable of generating and displaying one-time passwords as well as performing other functions, such as challenge and response, PKI, digital certificate, and/or biometric.

The token must first be seeded to generate and display one-time passwords. Seeding is the process of loading an original, or seed, value into a token. From the seed value one-time passwords are subsequently generated or calculated, or both. There are many ways to load seed values into

The token can be seeded when it is coupled to a computer via the interface. For example, seed values can be loaded into the token from the computer via the interface. Seed values may also be sent to the token from a network that the computer is connected to. The seed values may be encrypted or in clear text. The seed values may also be generated, derived and/or calculated from PKI keys pairs and/or digital certificates. Some methods of seeding involve a counter, time, or time-related functions. In these cases, when the token is coupled to a computer, it may allow synchronization operations to synchronize the token with such counter, time, or time related functions.

The token may support a single authentication method or a combination of different authentication methods. These authentication methods include one-time password, challenge response, PKI, digital certificate, and/or biometric. The token may also perform such functions while coupled with a computer and thus to a network that the computer is con-

BRIEF DESCRIPTION OF THE DRAWINGS

The objects and features of the present invention, which are cation that go beyond simple username and password 65 believed to be novel, are set forth with particularity in the appended claims. The present invention, both as to its organization and manner of operation, together with further

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objects and advantages, may best be understood by reference to the following description, taken in connection with the accompanying drawings, in which:

FIG. 1 is a schematic diagram showing an embodiment of the token device of the present invention coupled to a computer and showing the computer coupled to a computer network;

FIG. 2 is a top, schematic view of a preferred embodiment of a token device of the invention showing a display portion rotatably coupled to a body portion of the token device invention:

FIG. 3 is a top, schematic view of a preferred embodiment of the token device of the invention; and

FIG. 4 is a top, schematic view showing token device of the invention in a closed position.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

The following description is provided to enable any person 20 skilled in the art to make and use the invention and sets forth the best modes presently contemplated by the inventors of carrying out the invention. Various modifications, however, will remain readily apparent to those skilled in the art, since the generic principles of the present invention have been 25 defined herein.

Referring to the drawing in FIGS. 1-4, the invention comprises a token device, or token, shown generally at 10. The token includes a body portion 12 and a display portion 14. The display portion may optionally be pivotally, rotatably, or 30 similarly coupled to the body portion 12.

An on-board processor 16 and memory 18 for processing and storing data may be contained in the body portion 12. The processor 16 is preferably capable of generating and outputting data that may be utilized as one-time passwords. The 35 one-time passwords output by the processor 16 may be displayed on a display 20 of the display portion 14.

A one-time password output by the processor 16 may comprise a string of alphanumeric characters. Preferably, the string of alphanumeric characters ranges from six to eight 40 characters.

The token 10 may be provided with a unique string of information, or data, for identifying that particular token 10. The unique string of information may be stored in the token's memory 18. A copy of the unique string of information may 45 reside at a remote location, such as a server 31 of a network 34

The display portion 14 includes a display 20. The display 20 preferably comprises either a Liquid Crystal Display (LCD) or Light Emitting Diode (LED) display that is electronically coupled to the processor 16 using known methods. The display 20 is preferably capable of displaying a plurality of numeric or alphanumeric characters, shown generally at 22 that can be viewed through a window 23. The display portion 14 may be rotatably coupled to the body portion 12. Rotatably coupling the display portion 14 to the body portion 12 may help to prevent damage to the display 20 and may provide a token 10 having reduced dimensions.

The display portion 14 includes an interface 26 for coupling the token 10 to a data port 28 of a computer, shown 60 generally at 30. The interface 26 may be provided in any suitable known data interface configuration. Preferably, the interface 26 is provided in a known Universal Serial Bus (USB) configuration for coupling to a known USB port 28 of the computer 30 via a USB data cable 32. Additionally, the 65 computer 30 may be coupled to a computer network 34, such as the Internet. Thus, data may be transmitted between the

token 10 and computer 30, via the data cable 32, and data may be transmitted between the token 10 and network 34, via the data cable 32 and computer 30. Alternatively, the token 10

may optionally function externally of the network 34 and without coupling to the computer 30.

The display portion 14 may further include an activation button 24. The activation button 24 may be provided for activating the display 20, to limit power consumption or increase the life of the display 20, for example.

The token 10 is capable of receiving, generating, and outputting data and information. This data and information may include one-time password seeding, file transfer, authentication, configuration and programming of the token 10. The multi-functional token 10 is capable of generating and displaying one-time passwords as well as performing other functions.

The token 10 must first be seeded to generate and display one-time passwords. Seeding is the process of loading an original, or seed, data value into the token 10. From the seed value one-time passwords are subsequently generated or calculated, or both. There are many ways to load seed data values into the token 10.

One preferred method of seeding the token 10 includes first coupling the token 10 to the computer 30 via the data cable 32. The seed data values are then sent to the token 10 and stored in memory 18 and processed by the token's processor 16. Alternatively, seed values are then sent to the token 10 from a server 31 of the network 34 via the computer 30 and data cable 32. There are a number of known methods for transmitting and loading seed values into the token 10 that are readily apparent to those of ordinary skill in the art.

The seed data values may, or may not, be encrypted. The seed values may also be generated, derived and/or calculated from PKI keys pairs and/or digital certificates. Some methods of seeding the token 10 involve a counter, time, or time-related functions. In these cases, when the token 10 is coupled to the computer 30, it may allow synchronization operations to synchronize the token 10 with such counter, time or time related functions.

The token 10 may support a single authentication method or a combination of different authentication methods. These methods include one-time password, challenge response, PKI, digital certificate, and/or biometric. The token 10 may also perform such functions while coupled with the computer 30 and thus to any network 34 that the computer 30 is connected to.

Thus, there has been described a token device that generates and displays one-time passwords and couples to a computer for inputting or receiving data for generating and outputting one-time passwords and performing other functions. The token may also be coupled to any network that the computer may be connected to, when coupled to the computer. Data and information may be transmitted between the computer and token, and between the network and token, via the computer and interface. The data and information may include one-time password seeding, file transfer, authentication, configuration and programming of the token.

Those skilled in the art will appreciate that various adaptations and modifications of the just-described preferred embodiments can be configured without departing from the scope and spirit of the invention. Therefore, it is to be understood that, within the scope of the appended claims, the invention may be practiced other than as specifically described herein.

What is claimed is:

 A unitized USB token device for generating and displaying password data comprising:

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a body portion; a seed value for generating one-time passwords; and

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- a display portion, the display portion including a display for displaying alphanumeric characters, the token device being unitized such that the display portion is fixedly attached to the body portion; and
- a USB interface for coupling the token device to a computer.
- 2. The token device of claim 1 wherein the display portion displays alphanumeric characters representing password data 10 generated by the token device.
- 3. A unitized USB token device for generating and displaying password data comprising:
 - a body portion, the body portion including, a processor for processing data; a memory for storing data, the memory coupled to the processor, said memory containing a seed value to allow said processor to generate one-time passwords; and
 - a display portion, the display portion including, a display for displaying alphanumeric characters, the display 20 coupled to the processor for displaying data output by the processor, and the token device being unitized such that the display portion is fixedly attached to the body portion; and
 - a USB interface for coupling the token device to a computer, for transmitting data between the processor and computer.
- 4. The token device of claim 3 wherein the display portion is rotatably coupled to the body portion.
- 5. The token device of claim 4 wherein the display displays 30 alphanumeric characters representing password data output by the processor.
- 6. The token device of claim 5 wherein the display is configured to display at least five alphanumeric characters representing password data output by the processor.
- 7. The token device of claim 3 further including a data cable configured to couple the interface to the computer for transmitting data between the token device and computer.
- 8. A unitized USB token device for generating and displaying password data comprising:
 - a body portion, the body portion including, a processor for processing data, the processor contained within the body portion;
 - a memory for storing data, the memory coupled to the processor and contained within the body portion, said 45 memory containing a seed value to allow said processor to generate one-time password; and
 - a display portion rotatably coupled to the body portion, the display portion including, a display for displaying alphanumeric characters, the display coupled to the processor for displaying data output by the processor; and
 - a USB interface for coupling the token device to a computer, the interface coupled to the processor for transmitting data between the processor and computer.
- **9.** The token device of claim **8** wherein the display is 55 configured to display at least five alphanumeric characters representing password data output by the processor.
- 10. The token device of claim 9 wherein the display comprises a selected one of a liquid crystal display and a light emitting diode display.
- 11. The token device of claim 8 further including a data cable configured to couple the interface to the computer for transmitting data between the token device and computer.
- 12. The token device of claim 8 wherein the processor generates new password data using a seed value that varies by a time or time-related function at predetermined time intervals.

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- 13. The token device of claim 8 wherein the processor generates new password data upon receipt of data from the computer, and wherein the new password data is displayed on the display.
- 14. The token device of claim 13 wherein the token device transmits the new password data to the computer via the data
- 15. The token device of claim 14 wherein the computer is connected to a least one computer of a computer network.
- 16. The token device of claim 15 wherein the processor generates new password data upon receipt of data from a least one computer of the computer network that the token is connected to via the computer and data cable, and wherein the new password data is displayed on the display.
- 17. The token device of claim 16 wherein the token device transmits the new password data to least one computer of the computer network.
- 18. A method for generating and outputting one-time passwords, the method comprising;
 - providing a unitized USB token device, the token device including, a body portion including a processor and a memory, said memory containing a seed value to allow said processor to generate one-time passwords, a display portion, the display portion including a display for displaying alphanumeric characters representative of one-time password data generated by the processor, the token device being unitized such that the display portion is fixedly attached to the body portion, and an interface for coupling the token device to a computer, for transmitting data between the token device and computer;

loading a counter or time value into the memory;

- feeding the seed value and the counter or time value into the processor for generating data representative of one-time passwords; and generating data representative of a one-time password.
- 19. The method of claim 18 wherein the data representative of a one-time password is displayed on the display.
 - 20. The method of claim 18 further comprising:
 - providing a data cable configured to couple the interface to the computer for transmitting data between the token device and computer, and wherein the computer is connected to a least one computer of a computer network.
 - 21. The method of claim 20 further comprising:
 - transmitting data representative of a one-time password from the token device to the computer.
 - 22. The method of claim 21 further comprising:
 - transmitting data representative of a one-time password from the token device to a computer of the computer network.
- 23. The method of claim 18 further comprising generating or modifying said seed value by methods selected from the group consisting of PKI keys pairs, digital certificates, and time related functions.
- 24. The device of claim 3, wherein said device additionally performs other functions selected from the group consisting of challenge and response, PKI, digital certificate, and biometric functions.
- 25. The device of claim 8, wherein said device additionally performs other functions selected from the group consisting of challenge and response, PKI, digital certificate, and biometric functions.

* * * * *

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 7,519,989 B2 Page 1 of 1

APPLICATION NO.: 10/891598

DATED: April 14, 2009

INVENTOR(S): Paul Lin et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page Item [73] should be Authenex Inc.

Signed and Sealed this

Second Day of June, 2009

JOHN DOLL.
Acting Director of the United States Potent and Trademark Office